

Anti-Human CD31/PECAM-1-151Eu

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3151025D

Package size and concentration: 25 µg, 0.5 mg/mL

Storage: Store at 4 °C. Do not freeze.

Reactivity: Human

Clone: EPR3094

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

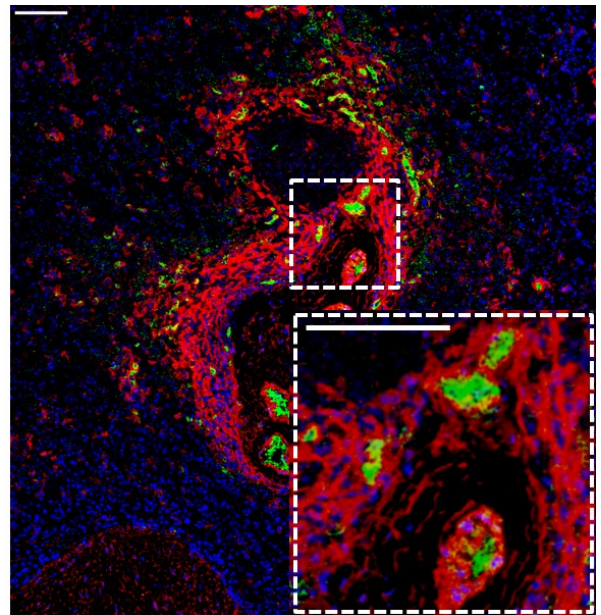
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

Quality control: Each lot of conjugated antibody is quality control-tested by Imaging Mass Cytometry on tissue sections.

Recommended concentration: For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range:
 IMC-Paraffin: 1:50 to 1:200

Description

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1) or endoCAM, is a type I transmembrane glycoprotein. It is expressed by endothelial cells on blood vessels, as well as by monocytes, granulocytes, platelets and a small subset of T cells. It plays a role in wound healing, angiogenesis and removal of aged neutrophils and in cellular migration in an inflammatory situation.



Human spleen (FFPE) stained with 151Eu-anti-CD31 (EPR3094) at a dilution of 1:100 (green pseudocolor), 141Pr-anti-αSMA (1A4) (red pseudocolor), and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.

References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for imaging mass cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.

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